FILE NOTATIONS Entered in NID File Checked by Chief Location Map Pinned Approvel Lerrer Card Indexed Disapproval Letter COMPLETION DATA: Date Well Completed 10-13-73 Location Inspected OW.... WW.... TA.... Bond released State or Fee Land GW.... OS.... PA... LOGS FILED Driller's Log.....

E..... I..... Dual I Lat..... GR-N..... Micro.....

CBLog..... CCLog..... Others....

BHC Sonic GR..... Lat..... Mi-L.... Sonic....

Electric Logs (No.)



1110 DENVER CLUB BUILDING 518 SEVENTEENTH STREET DENVER, COLORADO 80202 TELEPHONE 303—573-5665

August 17, 1973

Mr. Gerald R. Daniels U. S. Geological Survey 8416 Federal Building Salt Lake City, Utah 84111

Mr. Cleon B. Feight
Utah Oil & Gas Conservation Division
1588 West North Temple
Salt Lake City, Utah 84116

Re: Anschutz #2 Federal 267 SE SE Sec. 27-19S-23E Grand County, Utah Federal Lease U-0143267

Gentlemen:

Transmitted herewith in triplicate is the APPLICATION FOR PERMIT TO DRILL (Form 9-331C) for the captioned well with survey plats and development plan for surface use attached. Also attached is a designation of operator in favor of Anschutz executed by Midwest Oil, lessee of record.

Yours very truly,

THE ANSCHUTZ CORPORATION

W. W. Wakefield Vice President

WWW:kcw Enclosure

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

	DEPARTMEN	IT OF THE IN	TERIOR	İ	5. LEASE D	I IGNATION	RIG BRIAL NO.
	GEOL	OGICAL SURVEY	ſ				# ¥₩ 01432
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LOCATION PLAT FOR ANSCHUTZ #2 FED.267 MIDWEST

SE.SE.SEC.27-19S-23E.

Elev.: 4880'grd.

14 Cov. SE社 SECTION 27 Location 660 26 35

Scale: 1 in.=400 ft.

Date: August 14, 1973

Surveyed by: W. Don Quigley

H. Non Guigley

PLAT NO.1

LOCATION PLANS FOR ANSCHUTZ #2 FED.267-MIDWEST WELL SE.SE.SEC.27-19S-23E.SLM. GRAND COUNTY, UTAH

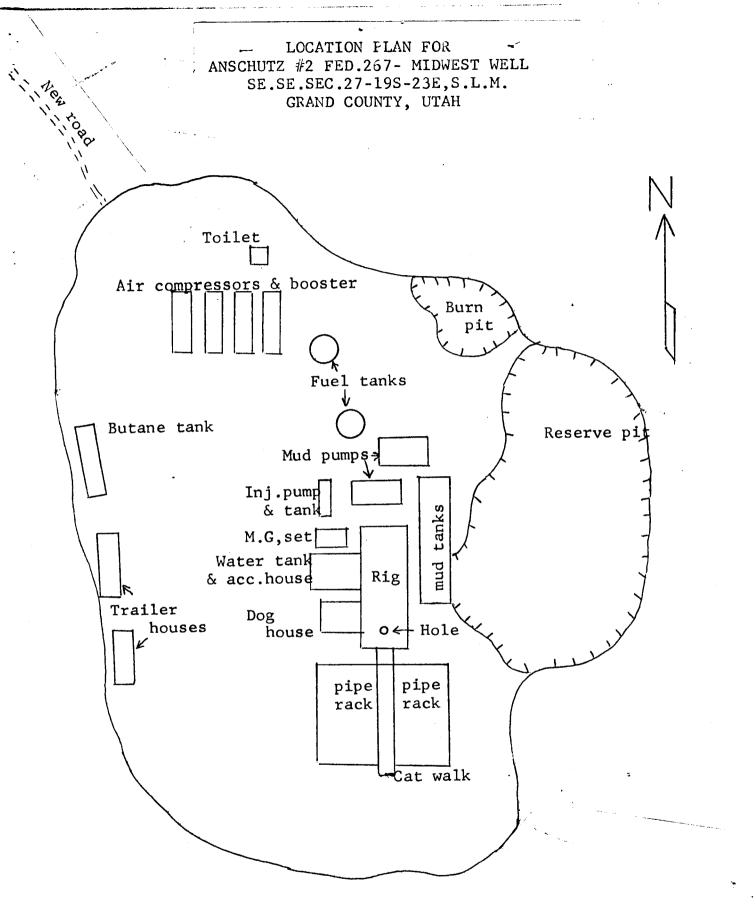
- 1. A survey plat (Plat No.1) is attached showing the location of the well. Map No.1 shows the route to the well site from Hwy 50-6 (I-70).
- 2. Map No.2 shows the access road to the well site from present roads. The proposed road is real close to the present road as shown on the map and is across relatively flat ground.
- 3. All present wells and dry holes around the proposed well site are shown on Map No.2.
- 4. See 1 & 2 above.
- 5. A plan for the location of production equipment at the well site, if the well is successful, is shown on Plat No.2. If oil, a pump jack (probably the one from the #1 Fed 267 well nearby), heater-treater, and tank battery will be installed. If gas, a dehydrator, flow lines, and fluids tank will be installed. This is a wildcat well, but there is a pipe line (The Tejas Line), about one mile south of the well site. Some of the test equipment used on the #1 Fed.267 well may also be used.
- 6. Water for drilling purposes and rig use can probably be obtained from nearby Cottonwood Creek; if not then from the Colorado River. The water will be hauled to the well site by truck.
- 7. A plat showing the plan for the placement of the drilling equipment to be used in the drilling of the well is shown on Plat No.3. This plat shows the reserve pit and burn (garbage) pit. Excess drilling mud, waste water, and cuttings will be deposited into the reserve pit during drilling operations. The garbage and burnable material will be put into the burn pit. At the completion of the well these pits will be folded-in and levelled.
- 8. See location of house trailers on Plat No.3.
- 9. No airstrip will be used in the drilling or completion

operations of this well.

- 10. See Plat No. 3 for the drilling equipment layout.
- 11. The surface of the site is covered with sage brush and some grass. The soil is Mancos shale and is not really top-soil. The location will be graded level for the equipment; and since the area is quite level, there will be little grading. After the well is abandoned or completed, the site will be cleaned and levelled and the pits will be folded-in. The location could also be reseeded, if the well is dry.
- 12.Access to the location is readily afforded by the present roads, and there will be no need for additional roads except the short 200-ft. to the location from the ranch road. Therefore the amount of dozer work and grading will be relatively little.

" New toad PLAN FOR PRODUCTION EQUIPMENT ANSCHUTZ #2 FED. 267- MIDWEST WELL SE.SE.SEC.27-19S-23E GRAND COUNTY, UTAH Tank battery (if oil) Fence Fluid pit Dehydrator(if Heater-treater -(if oil) Gas line (buried) Flow line (buried) Pump jack (if oil) Well head To main gas line(if ga:

Plat No.2



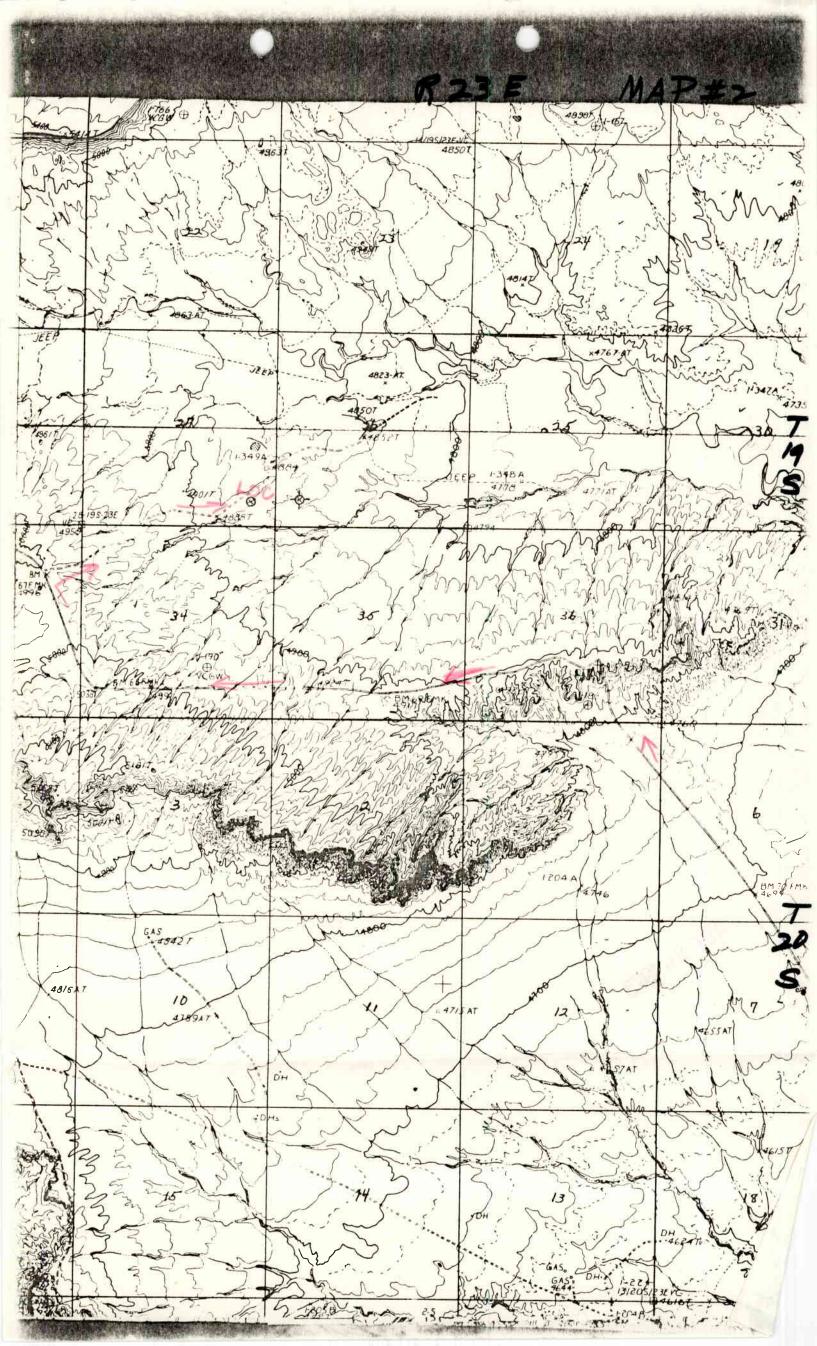
Scale: 1 in.= approx.75 ft.



Power line _

Woods-brushwood

FOR SALE BY U.S. GEOLOGICAL SURVEY, DEN



August 21, 1973

The Anschutz Corporation 1110 Denver Club Building Denver, Colorado 80202

> Re: Well No. Federal 267 - #2 Sec. 27, T. 19 S, R. 23 E, Grand County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the Order issued in Cause No. 102-5.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL - Chief Petroleum Engineer HOME: 277-2890 OFFICE: 328-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation relative to the above will be greatly appreciated.

The API number assigned to this well is 43-019-30176.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT DIRECTOR

CBF:sd

cc: U.S. Geological Survey



PI

1110 DENVER CLUB BUILDING 518 SEVENTEENTH STREET DENVER, COLORADO 80202 TELEPHONE 303—573-5665

October 5, 1973

Mr. Gerald R. Daniels U. S. Geological Survey 8416 Federal Building Salt Lake City, Utah 84111

Mr. Cleon B. Feight
Utah Oil & Gas Conservation Commission
1588 West Temple North
Salt Lake City, Utah 84116

Re: Anschut z #2 Federal 267

SE SE Section 27-19S-23E

Grand County, Utah Federal Lease U-0143267

Gentlemen:

This is to advise that the captioned well was spudded at 5 PM, October 4, 1973. Surface casing (7 5/8") was set at 110' KB with 50 sacks cement. We expect that the well will reach the casing point on about October 11.

Yours very truly,

THE ANSCHUTZ CORPORATION

Robert M. Wakefield

Geologist

RMW: kcw



PIP

1110 DENVER CLUB BUILDING 518 SEVENTEENTH STREET DENVER, COLORADO 80202 TELEPHONE 303—573-5665

October 15, 1973

AIR MAIL

Mr. Gerald R. Daniels U. S. Geological Survey 8416 Federal Building Salt Lake City, Utah 84111

> Re: Anschutz #2 Federal 267 SE SE Section 27-19S-23E Grand County, Utah Federal Lease U-0143267

Dear Mr. Daniels:

Transmitted herewith in triplicate is the NOTICE OF INTENT TO ABANDON (Form 9-331) for the captioned well.

Yours very truly,

THE ANSCHUTZ CORPORAT ION

Robert M. Wakefield

Geologist

RMW:kcw Enclosure

Utah O & G Conservation Commission 1588 West Temple North Salt Lake City, Utah 84116





1110 DENVER CLUB BUILDING 518 SEVENTEENTH STREET DENVER, COLORADO 80202 TELEPHONE 303-573-5665

October 16, 1973

Mr. Gerald R. Daniels U. S. Geological Survey 8416 Federal Building Salt Lake City, Utah 84111

> Re: Anschutz #2 Federal 267 SE SE Section 27-19S-23E Grand County, Utah Federal Lease U-0143267

Dear Mr. Daniels:

Transmitted herewith in triplicate is the WELL COMPLETION REPORT AND LOG (Form 9-330) for the captioned well.

Yours very truly,

THE ANSCHUTZ, CORPORATION

Robert M. Wakefield

Geologist

RMW:kcw Enclosure

CC Mr. Cleon B. Feight
Utah Oil & Gas Conservation Commission
1588 West Temple North
Salt Lake City, Utah 84116

Form 9-230 (Rev. 5-68)		UN ∠D	STATES	su:	BMIT IN D	at v	Budge	approved. et Bureau No. 42–R355.5
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The Anschut		lon					9. WELL NO.	ral 267
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	r Club Bldg						10. FIELD AND PO	OOL, OR WILDCAT
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33.*				RODUCTION		<u></u>		
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35. LIST OF ATTACHS						. *		
35. List of ATTACH:		g and attached i	n ormation is	complete and	correct as	determined fro	m all available reco	rds

NSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal and/of State laws and regulations. Any necessary special Instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to cregional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/of State office. Set and 38, below regarding separate reports for separate completions on them 22 and 24, and 38, below regarding separate reports for separate completions on the case of the case of the completions of received is submitted, copies of all currently available logs (drillers, geologists, sample and ore analysis, all types electric etc.), formal in the directions of received in the case of
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IIIO DENVER CLUB BUILDING 518 SEVENTEENTH STREET DENVER, COLORADO 80202 TELEPHONE 303-573-5665

January 11, 1974

Mr. Gerald R. Daniels U. S. Geological Survey 8426 Federal Building Salt Lake City, Utah 84111

Mr. Cleon Feight State of Utah 1588 West, No. Temple Salt Lake City, Utah 84116

> Re: Anschutz #2 Federal 267 SE SE Sec. 27-19S-23E Grand County, Utah

Gentlemen:

In order to complete your files, we are enclosing a copy of the Drilling History and Geological Report on the above captioned well.

Yours very truly,

THE ANSCHUTZ CORPORATION

Kathy White

/k Enclosure 4 87

PhD

DRILLING HISTORY

and

GEOLOGIC REPORT

οń

ANSCHUTZ #2 FEDERAL 267 WELL GRAND COUNTY, UTAH

November 20, 1973

bу

W. Don Quigley Consulting Geologist Salt Lake City, Utah

DRILLING HISTORY

of

ANSCHUTZ #2 FEDERAL 267 WELL GRAND COUNTY, UTAH

Operator:

The Anschutz Corporation Inc.

1110 Denver Club Bldg. Denver, Colorado 80202

Contractor:

Gunnison Drilling Company

P. O. Box 2186

Grand Junction, Colorado 81501

Location:

SE.SE.Section 27, T.19 S., R.23 E., S.L.M.

Grand County, Utah (660' from S-line &

660' from E-line)

Elevations:

Grd.: 4880'; D.F.: 4891'; K.B.: 4892'

Spudded-in: October 4, I973 Finished Drilling: October 11, 1973

Total Depth:

2902 ft.

Producing Formation: None

Plugged & Abandoned: October 13, 1973

History

Oct.2-3: Moving in rig & rigging up.

Oct.4: Finished rigging up. Drilled rat hole. Spudded in and drilled 9 3/4" hole to 110". Ran 3 jts. of 7 5/8", 26.40#, J-55 casing & landed at 98.5". Cemented with 50 sks of cement with returns to the surface. Waiting on cement to cure.

Oct.5: Drilled 110' to 550'(440'). Waiting on cement to cure and nippled up to drill ahead with air. Installed blow-out preventor and rotating head. Drilled ahead with 6 3/4" bit and air. Drilling at rate of 50 ft./hr.

Oct.6: Drilled 550' to 1656' (1106'). Drilling at rate of 50' to

60' per hr. & dusting good.

Oct.7: Drilled 1656' to 2476' (820').Drilling rate decreased at about 2200' which is the probable top of the Frontier section of the Mancos. This is about the same datum level of the Frontier in the nearby #1 Fed.267 well. The drilling rate really decreased at 2376'. This is the probable top of the Dakota formation. Samples were white, f.g. to m.g. qtz. ss. w/rd'd to sub rd'd grns. No fluoresence or shows. No gas. Drilling rate about 20 ft/hr. Next sand at 2495' contained some brn. dead oil specks without fluor. Encountered a small flare of gas at 2410'-2420' (about a 5-ft. flare).SS.was f.g.to m.g., arg., but had some porosity and some water. Hole got damp and had to rig-up for air-mist drilling.

- Oct.8: Drilled 2476' to 2687' (211"). Encountered third sand in Dakota at 2480' to 2500'. SS. is white to clr.,fg. to mg. w/rd'd grns and spotted blue fluor. Looks wet, and had more water in hole. Injection pump not working good and had trouble keeping hole clean. Had to work pipe loose a couple of times. Hit first green shale at about 2500'. This is the probable top of the Cedar Mountain formation. Encountered top of Buckhorn sand at 2530'. Sand was fg., rd'd, wh. to clr., had no fluor., & looked wet. No apparent increase in gas. Hit first red shale at 2550', below the sand. This is the probable top of the Morrison formation. Waiting on repairs for air compressor.
- Oct.9: Drilled 2687' to 2721' (34'). Waiting on repairs for air compressor and getting booster to location. Roads are very muddy and in bad shape.
- Oct.10: Drilled 2721' to 2818' (97'). Made rd-trip at 2735' for Bit #3. Bit #2 made 2625' (110' to 2735') in 85 hrs. Drilled at an avg. rate of 31 ft./hr.
- Oct.11: Drilled 2818' to 2902' (84'). Encountered a thick sand in the Morrison formation at 2820' to 2860'. SS. was vfg., clr. qtz., w/rd'd grns, but had no shows or gas, ss. was hd & tgt. Hit another sand at 2895' which was fg., clr., qtz., w/rd'd grns, and had no shows. This was the second sand in the Salt Wash section of the Morrison and there was no need to drill deeper; so circulated hole and pulled 14 stds to wait on logging truck.
- Oct.12: Waited 20 hrs. on logging truck. Went back in hole with 14 stds and circulated to clean hole prior to logging. Ran gamma-density log, but couldn't get below 2437' with tool, due to bridges in hole; so logged from that depth to the bottom of the surface casing.
- Oct.13: Laid down drill collars and went back in hole with drill pipe and cleaned out hole to T.D. Installed the following cement plugs:

Plug No.1 - 2902' to 2750' ---- 25 sks.

Plug No.2 - 2600' to 2350' ---- 40 sks.

Plug No.3 - 150' to 20' ----25 sks.

Began rigging down.

W. Mon Templey W. Don Oyigley

GEOLOGIC REPORT on ANSCHUTZ #2 FEDERAL 267 WELL GRAND COUNTY, UTAH

GENERAL GEOLOGY

The Anschutz #2 Federal 267 well was located as an offset well to the #1 Federal 267 well which was drilled in June 1972. The #1 Fed. well had excellent shows and recovered some oil from a test of the Dakota formation. This well was drilled with mud and attempts to complete it for commercial production were unsuccessful. The well was given a fracture treatment using diesel and sand; but produced only water with a scum of new oil after the treatment.

It was considered that an offset well, if drilled with air, would have a good chance for commercial production. Some gas was encountered in the Dakota formation, but the quantity was not considered sufficient to be commercial. The amount was estimated to be less than 50 MCFGPD. The well was successfully drilled with air, so there was no damage to the potential pay zones, and no hydrostatic pressure on the formations; and thus nothing to prevent any hydrocarbons from entering the well bore and getting to the surface.

The subject well had three different sands in the Dakota formation, a well developed Buckhorn sand in the Cedar Mountain formation, and at least three different sands in the Morrison formation; but unfortunately, most of the sands were tight and quartzitic, or contained considerable bentonite, thus porosity was limited. The lack of porosity and quartzitic nature of the sands suggests that the well was located near a fault, but this was not ascertained definitely.

The structural position of the well was almost identical or level with the #1 Fed. 267 well with respect to the top of the Dakota formation, and possibly about 25 ft. higher on the top of the Morrison. This latter correlation cannot be definitely confirmed, because the electric log of the subject well did not get deep enough to cover the top of the Morrison because of the bridges in the hole at the time of logging.

Regionally, the prospective area of the well is located on the flanks of the Cottonwood anticline to the west and on the flank of the Sieber Nose anticline to the east. However, these features tend to lose their identity in this area and blend together. This is probably due to the underlying basement ridge or dome which is indicated by the magnetics at a depth of about 5250' below the surface.

DRILLING HISTORY

A detailed daily drilling history of the subject well is given in the previous section. Little or no trouble was encountered in drilling this well with air. There were some delays due to equipment breakdown, and waiting on a booster due to bad roads and lack of available trucks, plus waiting on the logging truck. The air drilling operation was quite successful and the potential pay sands were undamaged by drilling fluids and hydrostatic pressures, and were thus thoroughly tested. Actual drilling of the well, without the delays, took less than 100 hours.

STRATIGRAPHY

Only the Mancos shale is exposed around the area of the well site. The Castlegate sand and Mesaverde rocks are exposed around the edges of the cliffs to the north and west of the location.

As mentioned above, the Dakota, Cedar Mountain, and Morrison sands were well developed in the subject well but lacked porosity. In general, they were tight, hard, quartzitic, and/or bentonitic; suggesting that the well location may have been near a fault zone. This however, cannot be determined definitely.

Unlike the nearby #1 Fed.267 well, the upper Dakota sand, 2380' to 2392', was only 12 ft. thick instead of 40 ft. thick. It was bentonitic and contained no gas or shows of hydrocarbons. The second sand, 2410' to 2435', about 16 ft. below the bottom of the first sand was about 25 ft. thick with some possible shale breaks and did contain a small amount of gas (less than 50 MCFGPD). This sand was also bentonitic and contained a small amount of water. The third Dakota sand at 2480' to 2500' was fine to medium grained, had slight spotted blue fluoresence, but probably contained more water.

The Buckhorn sand, 2530' to 2550', at the base of the Cedar Mt. formation was fine grained, tight, had no fluoresence, and looked wet. The Morrison sands were also tight, quartzitic, and contained no shows.

A detailed lithologic log of the well cuttings, from 720 ft. to 2902 ft, (T.D.) is attached hereto. The formations with their tops, thicknesses, and datum points which were encountered in the #2 Fed. 267 well, and which have been determined from the electric

log and/or sample log of the well are as follows:

Formation	Depth to Top	Thickness	Datum
Mancos	Surface	2380'	4892' K.B.
Dakota	2380'	120'	2512'
Cedar Mt.	2500'	50 '	2392'
Morrison	25501		2342'
Total Depth	2902'		

GAS ZONES

Several potential gas sands were penetrated in the subject well, but none produced sufficient gas to be commercial. Three different sands were penetrated in the Dakota formation. The upper sand was tight and quartzitic. The middle sand had a little gas, less than 50 MCFGPD, along with a small amount of water. The lower sand had a slight show of fluoresence but contained some more water. The amount of water was small, however.

The Buckhorn sand, which is a highly potentially productive gas sand in the area, appeared to be wet and contained no shows or gas.

The potential sands in both the Brushy Basin and Salt Wash sections of the Morrison were tight, quartzitic, and contained no shows.

CONCLUSION

The Anschutz #2 Federal 267 well was an offset to the #1 Federal 267 well which had a good chance of producing oil from the Dakota formation. The #2 well, however, had only a show of gas, less than 50 MCFGPD, and the sands were generally tight and bentonitic.

The structural information from the well indicates that the two wells were nearly level with each other. However, the quartzitic and bentonitic nature of the sands suggest that the well may have been near a fault, but this is not definitely established.

The gas and oil accumulations in the various sand lenses in the Dakota, Cedar Mountain, and Morrison formations is quite unpredictable in the area. A high structural position is not always the most successful. There is a probable hydrodynamic condition which has considerable influence on the hydrocarbon accumulations,

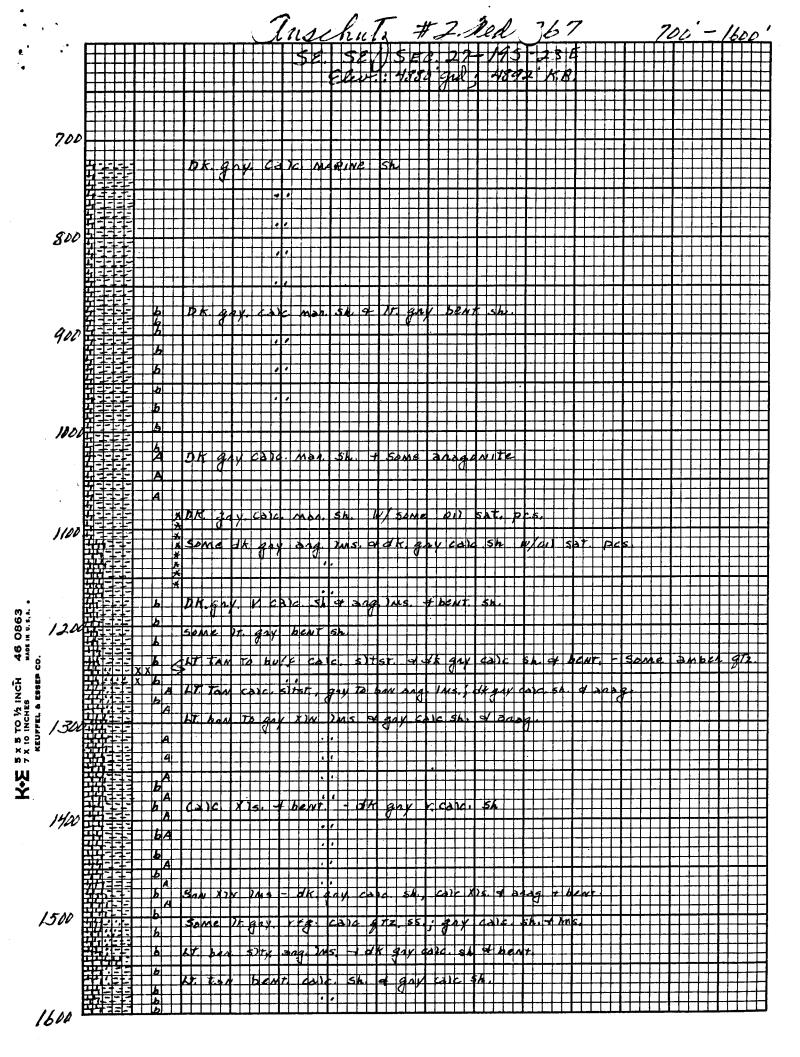
and the porosity-permeability condition of the sand lens is a controlling factor. Faults are definitely detrimental to the natural characteristics of the reservoir, and often the fault zones are flooded with fresh to brackish water. Thus a well should be placed a reasonable distance (600' to 1000') from any known fault zone.

Good gas wells are located less than two miles to the south, and about 3 miles to the southeast of the subject well. The geologic conditions surrounding these gas wells are not greatly different from those associated with the #2 well. There are, however, a humber of dry holes around the gas wells and several of these dry holes have since been found to be located on or near fault zones.

W. Don Quigle

Consulting Geologist

AAPG. Cert. #1296



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1110 DENVER CLUB BUILDING 518 SEVENTEENTH STREET DENVER, COLORADO 80202 TELEPHONE 303—573-5665

June 4, 1975

Mr. Gerald R. Daniels U. S. Geological Survey 8426 Federal Building Salt Lake City, Utah 84111

Mr. Cleon B. Feight Utah Division of Oil and Gas Conservation 1588 West North Temple Salt Lake City, Utah 84116

> Re: Anschutz #2 Federal 267 SE SE Sec. 27-19S-23E Grand County, Utah Federal Lease U-0143267

Gentlemen:

Transmitted herewith is the SUBSEQUENT REPORT OF ABANDONMENT on the captioned well.

We are advised by our drilling and production department the location is ready for inspection.

Yours very truly,

THE ANSCHUTZ CORPORATION

Robert M. Wakefield

Geologist

RMW:kc Enc.

(May 1963)	UN ED STATES	SUBMIT IN TRIPL TE*	Form approve Budget Burea	d. u No. 42–R1424
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